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(Modified) PTO/SB/21/(6-98)

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|  | Application Number   | 09/747,287   |
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| TRANSMITTAL  | Filing Date  | December 22, 2000  |
| TRANSMITTAL FORM  (to b) used for all correspondence after initial filing)   | First Named Inventor   | Beverly Packard  |
| (to be used for all correspondence after initial filing)   | Group Art Unit   | Unassigned   |
|  | Examiner Name  | Unassigned   |
| Total Number of Pages in This Submission 5   | Attorney Docket Number   | 300-948600US   |
| ENCL   | OSURES (check all that app   | ly)  |
| Fee Attached  Fee Attached  Draw  Amendment / Response  After Final  Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request  X information Disclosure Statement  Certified Copy of Priority Document(s)  Response to Missing Parts/ Incomplete Application  (for a.  (fo | sing-related Papers on Routing Slip (PTO/SB/69) occompanying Petition on to Convert to a sional Application or of Attorney, Revocation ge of Correspondence ess inal Disclaimer I Entity Statement uest for Refund on to Charge Deposit Account to Deposit Account | After Allowance Communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Additional Enclosure(s) (please identify below) receipt acknowledgment postcard  or any additional fees associated with cation, including any extensions of time |
| Response to Missing Parts under 37 CFR   |  |  |
| 1.52 or 1.53   | LICANT, ATTORNEY, OR A   | AGENT  |
| Firm or Individual name Tom Hunter Reg. No. 38,49  |  | ,  |
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| Typed or printed name                             | Deborah Berwick  |   |   |  |
| Signature   | Dehrah Baruch  | Date  | April 9, 2002   |  |
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The Law Offices of Jonathan Alan Quine

By Debrah Berurch

Attorney Docket No. 300-948600US

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Beverly Packard, et al.

Application No.: 09/747,287

Filed: December 22, 2000

For: HOMO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY

DIRECTION OF ENDINGMENT !

IN BIOLOGICAL SAMPLES

Examiner: Unassigned

Art Unit: Unassigned

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR § 1.97 and

§ 1.98

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Application No.: 09/747,287 Page 2

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the abovenoted Deposit Account.

Respectfully submitted,

Tom Hunter Reg. No. 38,498

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TH:db

Complete if Known Substitute for form 1449A-B/PTO Application Number 09/747,287 D c mb r 22, 2000 INFORMATION DISCLOSURE Hing Date First Named Inventor B v rly Packard STATEMENT BY APPLICANT Unassigned Group Art Unit Unassigned **Examiner Name** (use as many sheets as necessary) 300-948600US Attorney Docket Number April 9, 2002 Date Submitted U.S. PATENT DOCUMENTS U.S. Patent Document Pages, Columns, lines, Date of Publication of Name of Patentee or Applicant of Where Relevant Passages Cite Examiner Number Kind Code Cited Document Cited Document MM-DD-YYYY Initials No. or Relevant Figures Appeal (if known) 4.557.862 AA Mangel et al 12-10-1985 4,648,893 AB Roux 03-10-1987 4,708,929 AC Henderson 11-24-1987 4,780,421 AD Kameda et al. 10-25-1988 4,897,444 ΑE Byrnes et al. 01-30-1990 5,212,298 AF Rademacher et al. 05-18-1993 5,605,809 AG Komoriya et al. 02-25-1995 5,714,392 AΗ Komoriya et al. 02-03-1998 5,723,288 ΑI Dykstra et al. 03-03-1998 5.804.395 AJ Schade et al. 09-08-1998 6,037,137 AK Komoriya et al. 03-14-2000 FOREIGN PATENT DOCUMENTS Foreign Patent Document Date of Publication Pages, Columns, Lines, Kind Code Examiner Cite Name of Patentee or of Cited Document Where Relevant Passages Initials Office Number No. (if known) Applicant of Cited Document MM-DD-YYYY or Relevant Figures Appear AL WO 01/18238 Α1 Oncoimmunin, Inc. 03-15-2001 WO AM 98/37226 **A1** 08-27-1998 Oncoimmunin, Inc. WO ΑN 96/13607 Oncoimmunin, Inc. 05-09-1996 OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, Cite Examiner serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published KNIGHT ET Al. "A novel coumarin-labelled peptide for sensitive continuous assats of the AO matrix metalloproteinases." FEBBS LETTERS 296(3):263-266 (1992) CARMEL ET AL. "Use of Substrates with Fluorescent Donor and Acceptor Chromophores for AP the Kinetic Assay of Hydrolases." FEBBS LETTERS 30(1):11-14 (1973) ISAAC ET AL. "Use of Flurescence Resonance Energy Transfer to Estimate Intramolecular AQ Distances in the Msx-1 Homeodomain." Biochemistry 34(1):15276-15281 (1995) KELLER ET AL. "Mode of Insertion of the Signal Sequence of a Bacterial Precusor Protein AR into Phospholipid Bilayers As Revealed by Cysteine-Based Site Directed Spectroscopy." Biochemistry 35:3063-3071 (1996)

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(Modified) PTO/SB/08A-B (10-96) Approved for use through 10/31/99, OMB 0651-0031

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|          | INFORMATION DISCLOSURE<br>STATEMENT BY APPLICANT   |  | MENT BY ADDITIONALT   | Filing Date AUGUS                      | D cemb r 22 2000                            |  |  |
| - 1      | OTATEMENT BY APPLICANT   |  |   | First Named Inventor   Beverly Packard |   |  |  |
| - 1      |  |  |   | Group Art Unit                         | Unassign d                                  |  |  |
|          |  | (use a   | as many sheets as necessary)  | Examiner Name                          | Unassigned                                  |  |  |
| L        |  |  |   | Attorney Docket Number                 | 300-948600US                                |  |  |
|          | .,   | AS   | LATT ET AL. "Flourescence Do  | Date Submitted                         | April 9, 2002                               | $\neg \neg$                                      |  |
| L        |  |  | LATT ET AL. "Flourescence De Electronic Energy Transfer." An  | alitical Bioch                         | tidase A Activity Based on                  | T  |  |
| 1        |  | AT   | MATAYOSHI ET AL "Novel Elu  | orogania Culturally 30.30              | 5 (1972)                                    |  |  |
| -        |  | <del></del>  | Resonance Energy Transfer." S   | cience 247 (1990)                      | ssaying Retroviral Proteases by             |  |  |
|          | . •  | AU MATSUZAKI ET AL "Translocation of a Ob  |   |  | $\perp$ $\perp$                             |  |  |
| -        |  | across Lipid Bilayers by Forming a Pore." <i>Biochemistry</i> 34:6521-6526 (1995)  |   |  |   |  |  |
|          |  | AV NAGASE ET AL. "Design and Characterization of a Fluorogenic Substrate Selectively  Hydrolyzed by Stromelysin 1 (Matrix Metalloprotoinese 3)" (Circles Selectively   |   |  |   |  |  |
| $\vdash$ |  | Hydrolyzed by Stromelysin 1 (Matrix Metalloproteinase-3)" J. of Biol. Chem 269:20952 (1994)  AW PACKARD ET AL. Intramolecular Excitonic Dimers in Proteons Substitute 1994   |   |  | -   |  |  |
|          |  | AW PACKARD ET AL. Intramolecular Excitonic Dimers in Protease Substrated: Modification of the Backbone Moiety to Probe the H-Dimer Structure." American Observed Substrated: Modification of the   |   |  | $\vdash$                                    |  |  |
|          |  | Backbone Moiety to Probe the H-Dimer Structure." American Chem Society 1-8 (1998)  AX PARKHURST ET AL. "Donor-Accoptor Distance Distributions in a Double-Labeled  Fluorescent Oligonucleotide Both as a Single Strand and the Strand a |   |  |   |  |  |
|          |  | 1  | Fluorescent Oligopueloctide Bath  | coptor Distance Distributio            | ns in a Double-Labeled                      | <del>                                     </del> |  |
| L        |  | Fluorescent Oligonucleotide Both as a Single Strand and in Duplexes." Biochemistry   |   |  |   |  |  |
|          |  | AY PARKHURST FT AL "Kingtio Studies by Ft  |   |  |   |  |  |
|          |  |  | Employing a Double-Labeked Oli  | donucleotido: Hybridia - 1             | sonance Energy Transfer                     | $\overline{}$                                    |  |
| -        | Complement and to Single Strong DNA STRONG D |  |   |  |   |  |  |
|          |  | AZ   | WANG ET AL. "Design and Synth   | nesis of New Flourogenic L             | 5-292 (1995)                                |  |  |
|          |  |  | AZ WANG ET AL. "Design and Synthesis of New Flourogenic HIV Protease Substrates Based on Resonance Energy Transfer." Tetrahedron Letters 31:6493 (1990)  WU ET AL. "Resonance Energy Transfer: Methods and Applications." Analytical Biochemistry 218:1-13 (1994) |  |   |  |  |
|          |  | BA   | WUEI AL. "Resonance Energy 7  | ransfer: Methods and Apr               | olications" Anglidical Di                   |  |  |
|          |  | -  | VANC ET AL "O   |  | Analytical Biochemistry                     |  |  |
|          | ,  | BB   | YANG ET AL. "Conformational Fle<br>Nucleotides." <i>Biochemistry</i> 35:795   | exibality of Three-Way DN              | A Junctions Containing Innaired             | _  |  |
|          | •  |  | Nucleotides." Biochemistry 35:795   | 59-7967 (1996)                         | Containing inpaired                         |  |  |
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